

What is claimed is:

1. A touch panel comprising:

a light guide panel including a first translucent material;

5 an optical sensor array having a light receiving face thereof opposed to a first side face of said light guide panel;

a lens sheet having a light emitting face thereof opposed to a second side face of said light guide panel which is opposed to said first side face; and

illumination means for illuminating an incident light face of said lens sheet.

2. The touch panel according to claim 1, wherein a refractive index of said first translucent material is 1.4 to 1.7.

3. The touch panel according to claim 1, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

4. The touch panel according to claim 1, wherein said illumination means includes light emitting diodes.

5. The touch panel according to claim 1, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a

contact portion of said input pen with said light guide panel includes a second translucent material of which the refractive index is equal to or greater than that of said first translucent material.

5 6. The touch panel according to claim 1, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen includes a material which absorbs illuminating light from said illumination means.

10 7. The touch panel according to claim 1 is mounted in front of a display screen of a display device.

8. The touch panel according to claim 7, wherein said display device is a liquid crystal display device.

15 9. The touch panel according to claim 7, wherein said display device is an electro-luminescence display device.

10. An electronic equipment provided with a display device and a touch panel, said touch panel comprising:

a light guide panel including a first translucent material;

20 an optical sensor array having a light receiving face thereof opposed to a first side face of said light guide panel;

a lens sheet having a light emitting face thereof

opposed to a second side face of said light guide panel which is opposed to said first side face; and

illumination means for illuminating an incident light face of said lens sheet,

5 wherein said touch panel is mounted in front of a display screen of said display device.

11. The electronic equipment according to claim 10, wherein a refractive index of said first translucent material is 1.4 to 1.7.

10 12. The electronic equipment according to claim 10, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

13. The electronic equipment according to claim 10, wherein said illumination means includes light emitting diodes.

15 14. The electronic equipment according to claim 10, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel includes a second translucent material of
20 which the refractive index is equal to or greater than that of said first translucent material.

15. The electronic equipment according to claim 10, wherein said touch panel is equipped with an input pen which is

brought into contact with a surface of said light guide panel, and a tail end portion of said input pen includes a material which absorbs illuminating light from said illumination means.

5 16. The electronic equipment according to claim 10, wherein said electronic equipment provided with said display device and said touch panel is selected from an information terminal equipment and an electronic notebook.

10 17. The electronic equipment according to claim 16, wherein said display device is a liquid crystal display device.

18. The electronic equipment according to claim 16, wherein said display device is an electro-luminescence display device.

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